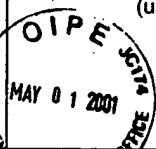


Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office INFORMATION DISCLOSURE CITATION (use several sheets if necessary)	Atty. Docket No. ENZ-7(P)(C3)	Serial No. 08/486,070
<div style="text-align: center;">    <b>EXAMINER'S COPY</b> </div>	Applicants: Stavrianopoulos et al.	
	Filed: June 7, 1995	Group: 1631

## U.S. PATENT DOCUMENTS


EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	4	7	2	4	2	0	2						
Am ↓	5	3	2	8	8	2	4		02/09/98	Dattagupta et al.	435	6	
	5	4	4	9	7	6	7		07/12/94	Ward et al.	435	6	
	5	4	4	9	7	6	7		05/20/92	Ward et al.	563	6	
	5	2	6	0	4	3	3		11/09/93	Engelhardt et al.	536	23.1	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION	
													YES	NO
	DE	A	2	9	1	5	0	8	2	10/31/79	Germany			
Am	GB	A	2	0	2	6	6	9	0	02/06/80	UK			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Am ↓		Buongiorno-Nardelli and Arnaldi, "Autoradiographic Detection of Molecular Hybrids between RNA and DNA in Tissue Sections," <u>Nature</u> 225: 946-948
		Gall and Pardue, "Formation and Detection of RNA-DNA Hybrid Molecules in Cytological Preparations," <u>Genetics</u> 63: 378-383
		John et al., "RNA-DNA Hybrids at the Cytological Level," <u>Nature</u> 223: 582-587 (1969)
		Benton, W.D. and Davis, R.W., "Screening Agt recombinant clones by hybridization to single plaques in situ," <u>Science</u> 196: 180 (1977)
		Leary, Brigati and Ward, "Rapid and sensitive colorimetric method for visualizing biotin-labeled DNA probes hybridized to DNA or RNA immobilized on nitrocellulose: Bio-blots," <u>Proc. Natl. Acad. Sci (USA)</u> 80: 4045-4049 (July 1983)
		Avrameas and Guilbert, "Enzyme-immunoassay for the measurement of antigens using peroxidase conjugates," <u>Biochimie</u> 54: 837-842 (1972)
		Bauman et al., "Rapid and High Resolution Detection of in situ Hybridization to Polytene Chromosomes Using Fluorochrome-Labeled RNA," <u>Chromosoma (Berl.)</u> 84: 1-18 (1981)
		Bildwell et al., "Enzyme Immunoassays for Viral Diseases," <u>J. Infectious Disease</u> : 136: S274-S278 (1977)
		Broker et al., "Electron Microscopic Visualization of tRNA genes with Ferritin-Avidin: Biotin Labels," <u>Nucl. Acids Res.</u> , 5(2): 363-384 (1978)
EXAMINER <i>Adrian Marshall</i>		DATE CONSIDERED 10-5-01
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office INFORMATION DISCLOSURE CITATION (use several sheets if necessary)	Att'y. Docket No. ENZ-7(P)(C3)	Serial No.
	Applicants:	
	Filed:	Group: 1631

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	4	2	3	0	7	9	7						
AM	4	2	3	0	7	9	7		10/28/90	Boguslaski et al.	435	7	
	4	2	6	1	8	9	3		04/14/81	Boguslaski et al.	260	326	
	4	3	1	8	9	8	0		03/09/82	Boguslaski et al.	435	7	
	4	3	8	0	5	8	0		04/19/83	Boguslaski et al.	435	7	
	4	3	8	3	0	3	1		05/10/83	Boguslaski et al.	435	7	
	4	3	1	8	9	8	1		03/09/82	Burd et al.	435	7	
	4	2	2	8	2	3	7		10/14/80	Hevey et al.	435	7	
	4	3	1	8	9	8	2		03/09/82	Hornby et al.	435	7	
	4	3	7	4	9	2	5		02/22/83	Litman et al.	435	7	
	4	4	8	6	5	3	9		12/04/84	Ranki et al.	436	504	
	4	4	4	6	2	3	1		05/01/84	Self	435	7	
	4	1	3	4	7	9	2		01/16/79	Boguslaski et al.	195	99	

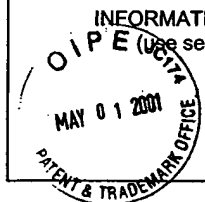
## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
	DT	P	2	6	1	8	4	1	0				YES	NO
			2	6	1	8	4	1	0	04/11/76	Germany			
AM			1	5	5	2	6	0	7	09/19/79	UK			
			2	8	2	5	0	9	0	11/18/98	Japan			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM ↓	Engvall and Perlmann, "Enzyme-linked immunosorbent assay (ELISA) Quantitative assay of immunoglobulin G," <u>Immunochem</u> 8: 871-874 (1971)
	Fertel R. and Weiss, B., <u>Methods in Enzymol.</u> Vol LV II, Bioluminescence and Chemiluminescence, DeLuca, M.A. (Ed.) 94-106 (1978)
	Hamaguchi et al., "Enzyme-Linked Sandwich Immunoassay of Macromolecular Antigens Using the Rabbit Antibody-Coupled Glass Rod as a Solid Phase," <u>Eur. J. Biochem.</u> 7: 459-467 (1976) and <u>FEBS Letters</u> : 69(1): 11-14 (1976)
EXAMINER <i>Asim Mansoor</i>	DATE CONSIDERED 10-5-01
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office	Atty. Docket No. ENZ-7(P)(C3)	Serial No. 08/486,070
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		
Applicants: Stavrianopoulos et al.		
Filed: June 7, 1995		Group: 1631



## U.S. PATENT DOCUMENTS

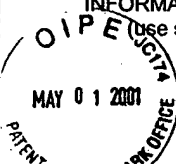
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
AM	5 4 7 6 9 2 8	12/19/95	Ward et al.	536	24	
	4 3 0 2 2 0 4	11/24/81	Wahl et al.	23	230.3	
	4 1 6 6 1 0 4	08/28/79	Wagner et al.	424	1	
	4 1 6 6 1 0 3	08/28/79	Wagner et al.	424	1	
	4 1 1 6 6 3 8	09/26/78	Kenoff	422	99	
	4 8 2 4 7 7 6	08/25/89	Heller	435	6	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO
AM	GB 2 1 2 5 9 4 6A	03/14/84	UK			
	1 5 4 8 7 4 1	07/18/79	UK			
	GB 2 0 4 5 2 3 9	10/29/80	UK			
	GB 2 0 4 1 9 2 2A	09/17/80	UK			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Hofmann et al., "Iminobiotin Affinity Columns and Their Application to Retrieval of Streptavidin", <u>Proc. Natl. Acad. Sci. USA</u> , <u>77</u> , No. 8, pp. 4666-68 (1980)
	Miranda, Q.R., et al., "Solid-Phase Enzyme Immunoassay for Herpes Simplex Virus," <u>J. Infectious Disease</u> <u>136</u> : S304-S310 (October, 1977)
	Langer and Ward, Abstract 1153: "A Rapid and Sensitive Immunological Method for <u>In Situ</u> Gene Mapping in <u>Journal of Supramolecular Structure and Cellular Biology</u> , (1981)
	Langer and Ward, "A Rapid and Sensitive Immunological Method for <u>In Situ</u> Gene Mapping," in <u>Developmental Biology Using Purified Genes</u> , ed. D.D. Brown, Academic Press, pp. 647-58 (1981)
	Mosback, K., et al., "immobilized Coenzymes," <u>Methods in Enzymology</u> , Vol. XLIV: 859-887 (1976)
	Nishimura et al. "Synthetic Nucleosides and Nucleotides: 5-Dimethylamino-2-oxidoisoquinolin-1-yl Diazomethane: A Novel Water Soluble Fluorescent Labelling Agent for Nucleotides," <u>Chem. Pharm. Bull.</u> , 28(6): 1695-1703 (1980)
EXAMINER	DATE CONSIDERED
AM	10-5-01
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 U.S. Department of Commerce		Atty. Docket No. ENZ-7(P)(C3)	Serial No. 08/486,070
(REV. 8-83) Patent and Trademark Office			
INFORMATION DISCLOSURE CITATION (use several sheets if necessary)		Applicants: Stavrianopoulos et al.	
		Filed: June 7, 1995	Group: 1631

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
AM	4 1 2 0 9 4 5	10/17/78	Gutcho et al.	424	1	
↓	4 0 4 1 1 4 6	08/09/77	Giaever	424	1	
↓	4 2 3 4 6 8 1	11/18/80	DeLuca-McElroy	435	8	

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Rosswell, D.F. and White E.H., "The Chemiluminescence of Luminol and Related Hydrazides" in <u>Methods in Enzymol.</u> Vol LV II, Bioluminescence and Chemiluminescence, DeLuca, M.A. (Ed.) 409-423 (1978)
↓	Schott, H., et al., "A Dihydroxyboryl-Substituted Methacrylic Polymer for the Column Chromatographic Separation of Mononucleotides, Oligonucleotides, and Transfer Ribonucleic Acid," <u>Biochemistry</u> 12: 932-937 (1973)
↓	Rudkin and Stollar, "High Resolution Detection of DNA-RNA Hybrids <u>in situ</u> by Indirect Immunofluorescence," <u>Nature</u> , 265: 472-73 (1977)
↓	Sodja and Davidson, "Gene Mapping and Gene Enrichment by the Avidin-Biotin Interaction: Use of Cytochrome-C as a Polyamine Bridge," <u>Nucl. Acids. Res.</u> 5, pp. 385-400 (1978)
↓	Voller et al., "Enzyme immunoassays with special reference to ELISA techniques," <u>J. Clinical Pathology</u> , 31: 507-520 (1978)
↓	Towbin H. et al., "Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications," <u>Proc. Natl. Acad. Sci (USA)</u> 76: 4350-4354 (1979)
↓	Weissback, A., and Poonian, M., "Nucleic Acids Attached to Solid Matrices," <u>Methods in Enzymology</u> , Vol. XXXIV, Part B: 463-475 (1974)
↓	Van Weemen and Schuurs, "Immunoassay Using Antigen-Enzyme Conjugates," <u>FEBS Letters</u> 15, no. 3: 232-236 (1971)
EXAMINER	DATE CONSIDERED
<i>Arden Marshall</i>	10-5-01
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Form PTO-1449 U.S. Department of Commerce		Atty. Docket No. ENZ-7(P)(C3)	Serial No. 08/486,070
(REV. 8-83) Patent and Trademark Office		Applicants: Stavrianopoulos et al.	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Filed: June 7, 1995	Group: 1631

**U.S. PATENT DOCUMENTS**

[illegible]

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Mathews, J.C. and Cormier, M.J., "Rapid Microassay for the Calcium-Dependent Protein Modulator of Cyclic Nucleotide Phosphodiesterase," <u>Methods in Enzymol. Vol LV II, Bioluminescence and Chemiluminescence</u> , DeLuca, M.A. (Ed.) 107-108 (1978)
	"Diagnostic Immunology: Current and Future Trends," <u>Cap Conference, Aspen</u> , 1978, p. 67 and 80
	Voller et al., "A microplate method of enzyme-linked immunosorbent assay and its application to malaria," <u>Bull. W.H.O.</u> , 51: 209-211 (1974)
	Szostak et al., "Hybridization with Synthetic Oligonucleotides," <u>Methods in Enzymol.</u> 68: 419-429 (1979)
	So, et al., "Characterization of an <u>Escherichia coli</u> Plasmid Encoding for the Synthesis of Heat-Labile Toxin: Molecular Cloning of the Toxin Determinant", <u>Infection and Immunity</u> , 21: 405-11(1978)
	Reiser et al., "Transfer of Small DNA Fragments from Polyacrylamide Gels to Diazobenzoyloxymethyl-paper and Detection by Hybridization with DNA Probes," <u>Biochem. And Biophys. Res. Comm.</u> , 85, No. 3, pp. 1104-12 (1978)
	Mesulam, M. M. and Rosene, D.L., "Sensitivity in Horseradish Peroxidase Neurohistochemistry: A Comparative and Quantitative Study of Nine Methods," <u>J. Histochem. Cytochem.</u> 27: No. 3, pp.763-778 (1979)
	Land, D.B. and Jackim, E., "A New Fluorescence-Yielding Substrate for Alkaline and Acid Phosphatase," <u>Analytical Biochemistry</u> , 16: 481-486 (1966)
	Kochetkov, N.K. et al., <u>Organic Chemistry of Nucleic Acids, Part B</u> , Kochetkov, N.K., and Budovskii, E.I. (Eds.): 331-332 (1972)
	Huang and Pagano, "Nucleic Acid Hybridization Technology and Detection of Proviral Genomes," <u>Methods in Virology.</u> , 6: 457-97 (1977)
	Fertel R. and Weiss, B., "Measurement of the Activity of Cyclic Nucleotide Phosphodiesterases with Firefly Luciferin-Luciferase Coupled Assay Systems," <u>Methods in Enzymol. Vol LVII, Bioluminescence and Chemiluminescence</u> , DeLuca, M.A. (Ed.) 94-96 (1978)
✓	Dallas et al. "The Characterization of an <u>Escherichia coli</u> Plasmid Determinant That Encodes for the Production of a Heat-Labile Enterotoxin," <u>Plasmids of Medical Environmental and Commercial Importance</u> , K.N. Timmis and A. Puhler, editors, Elsevier/North-Holland Biomedical Press (1979)
EXAMINER <i>Arden Marshall</i>	DATE CONSIDERED <i>10-5-01</i>
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office	Atty. Docket No. ENZ-7(P)(C3)	Serial No. 08/486,070
INFORMATION DISCLOSURE CITATION (use several sheets if necessary)  MAY 01 2001 U.S. PATENT & TRADEMARK OFFICE	Applicants: Stavrianopoulos et. al.	
	Filed: June 7, 1995	Group: 1631

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Bildwell et al., "Enzyme Immunoassays for Viral Diseases," <u>J. Infectious Disease</u> : 136: S274-S278 (1977)
	Bauman et al., "Rapid and High Resolution Detection of in situ Hybridisation to Polytene Chromosomes Using Fluorochrome-Labeled RNA." <u>Chromosoma (Ber.)</u> 84: 1-18 (1981)
	Broker et al., "Electron Microscopic Visualization of tRNA genes with Ferritin-Avidin: Biotin Labels," <u>Nucl. Acids Res.</u> , 5: 363-383 (1978)
	Engvall and Perlmann, "Enzyme-linked immunosorbent assay (ELISA) Quantitative assay of immunoglobulin G," <u>Immunochem</u> 8: 871-874 (1971)
	Hofmann et al., "Characterization of the Functional Groups of Bioten", <u>J. Biol. Chem.</u> , 141, 207-11 (1941)
	Elisa: In <u>The Clinical Microbiology Laboratory</u> , ed. T. G. Wreghitt and P. Morgan-Capner, Chapter 1, p. 9, 1990
V	Dallas and Falkow, "Molecular and Genetic Analysis of a DNA sequence Encoding for Enterotoxin Synthesis in <u>Escherichia coli</u> ," <u>Thirteenth Joint Conference on Cholera</u> , The U.S. - Japan Cooperative Medical Science Program (1977)
EXAMINER <i>Arden Marshall</i>	DATE CONSIDERED <i>10-5-01</i>
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	